

Chapter 3 Factoring Checklist

To help you study and make sure you are good to go for the evaluation check your understanding of the following

3.1 Factoring and Multiples of Whole Numbers

- Can you determine Prime Factors
- Do you understand Greatest Common Factors
- Do you understand Least Common Multiple

3.2 Perfect Squares, Perfect Cubes, and Their Roots

- Can you determine what a perfect square is
- Can you determine what a perfect cube is

3.3 Common Factors of a Polynomial

- Can you determine factors for a polynomial

3.5 Polynomials of the Form $x^2 + bx + c$

- Multiplying two binomials
- Factoring trinomials
- Factoring a Trinomials with a common factor and binomial factors

3.6 Polynomials of the Form $ax^2 + bx + c$

- Multiplying Two Binomials with Positive Terms
- Multiplying Two Binomials with Negative Coefficients
- Factoring a Trinomial Using Logical Reasoning
- Factoring a Trinomial by Decomposition

3.7 Multiplying Polynomials

- Using the Distributive Property to Multiply Two Polynomials
- Multiplying Polynomials in More than One Variable
- Simplifying Sums and Differences of Polynomial products

3.8 Factoring Special Polynomials

- Factoring a Perfect Square Trinomial
- Factoring Trinomials in Two Variables
- Factoring a Difference of Squares